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Term:	L7 and (histogram and (parent or child))
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result set

<u>L8</u>	L7 and (histogram and (parent or child))	5	<u>L8</u>
<u>L7</u>	('6247016' '6138115' '6055539' '5799311' '5787274')!.PN.	5	<u>L7</u>
<u>L6</u>	histogram near3 (parent or child)	19	<u>L6</u>
<u>L5</u>	L4 and (bucket near3 boundary)	2	<u>L5</u>
<u>L4</u>	6507840.pn. or 5870752.pn. or 6772142.pn.	3	<u>L4</u>
<u>L3</u>	L2 and L1	6	<u>L3</u>
<u>L2</u>	resistance near3 temperature near3 inverse	84	<u>L2</u>
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1 Optimal histograms for hierarchical range queries (extended abstract)

Nick Koudas, S. Muthukrishnan, Divesh Srivastava

 May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

 Full text available: pdf(224.88 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


2 Session 7A: Fast, small-space algorithms for approximate histogram maintenance

 Anna C. Gilbert, Sudipto Guha, Piotr Indyk, Yannis Kotidis, S. Muthukrishnan, Martin J. Strauss
 May 2002 **Proceedings of the thirty-fourth annual ACM symposium on Theory of computing**

 Full text available: pdf(266.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


(MATH) A vector \mathbf{A} of length N is defined implicitly, via a stream of updates of the form "add 5 to \mathbf{A}_3 ." We give a *sketching* algorithm, that constructs a small *sketch* from the stream of updates, and a *reconstruction* algorithm, that produces a B -bucket piecewise-constant representation (histogram) \mathbf{H} for \mathbf{A} from the sketch, such that $\|\mathbf{A} - \mathbf{H}\|_1 \leq (1 + \epsilon) \|\mathbf{A} - \mathbf{H}_{\text{opt}}\|_1$

3 STHoles: a multidimensional workload-aware histogram

Nicolas Bruno, Surajit Chaudhuri, Luis Gravano

 May 2001 **ACM SIGMOD Record, Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

 Full text available: pdf(429.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Attributes of a relation are not typically independent. Multidimensional histograms can be an effective tool for accurate multiattribute query selectivity estimation. In this paper, we introduce *STHoles*, a "workload-aware" histogram that allows bucket nesting to capture data regions with reasonably uniform tuple density. *STHoles* histograms are built without examining the data sets, but rather by just analyzing query results. Buckets are allocated where needed the most ...

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